AKAI

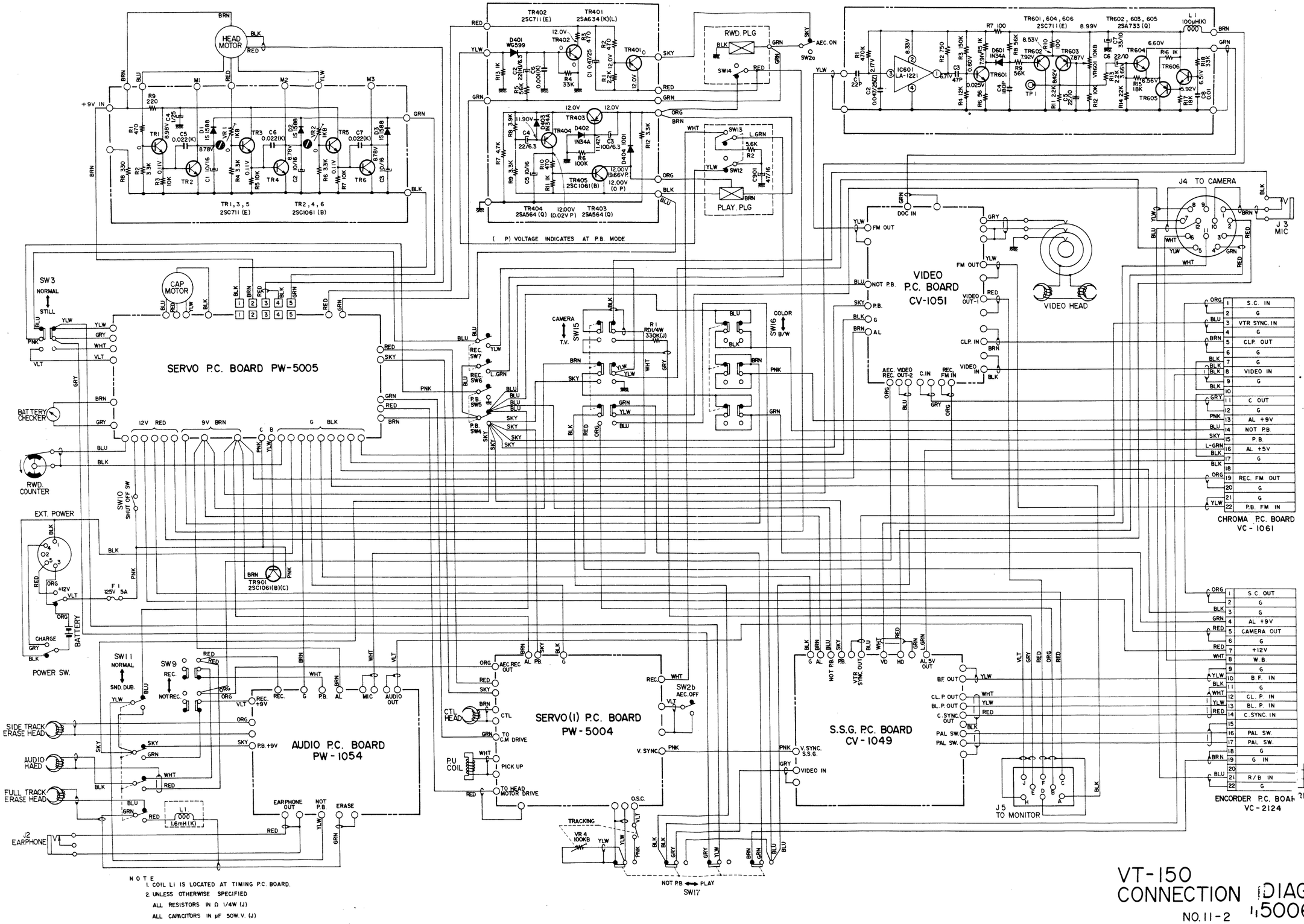
VTS - 150

MODEL

SERVICE MANUAL

VT-150 (NTSC) BLOCK DIAGRAM

NO.11-1 1500602A 2C



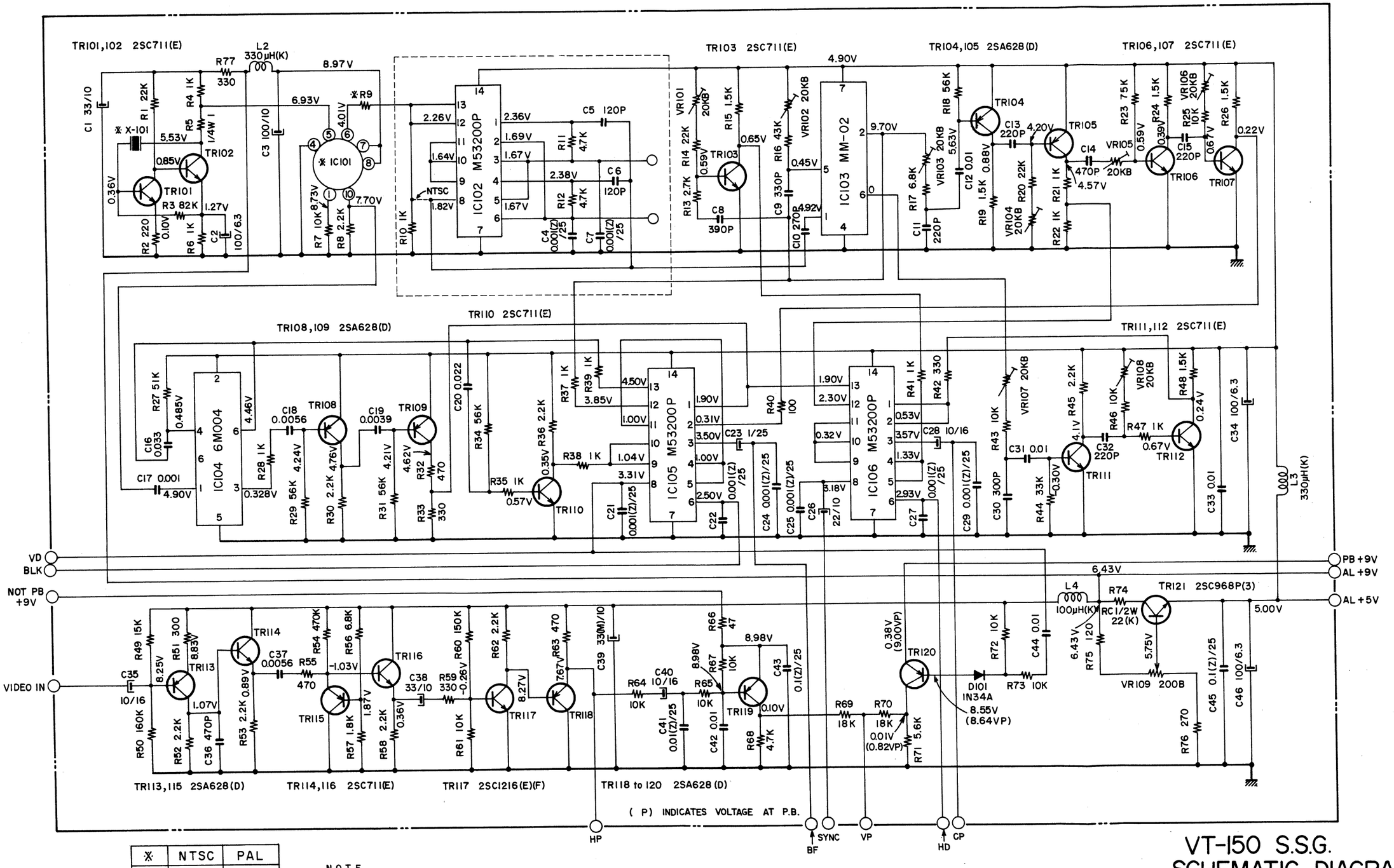
ORG	1	S.C. IN
	2	G
BLU	3	VTR SYNC. IN
	4	G
BRN	5	CLP. OUT
	6	G
BLK	7	G
BLK	8	VIDEO IN
BLK	9	G
	10	
GRY	11	C OUT
	12	G
PNK	13	AL +9V
BLU	14	NOT P.B.
SKY	15	P.B.
L-GRN	16	AL +5V
BLK	17	G
	18	
ORG	19	REC. FM OUT
	20	G
	21	G
YLW	22	P.B. FM IN

ORG	1	S.C OUT
	2	G
BLK	3	G
GRN	4	AL +9V
RED	5	CAMERA OUT
	6	G
RED	7	+12V
WHT	8	W.B.
	9	G
YLW	10	B.F. IN
BLK	11	G
WHT	12	CL. P. IN
YLW	13	BL. P. IN
RED	14	C. SYNC. IN
	15	
	16	PAL SW.
	17	PAL SW.
	18	G
BRN	19	G IN
	20	
BLU	21	R/B IN
	22	G

NOTE
1. COIL L1 IS LOCATED AT TIMING P.C. BOARD.
2. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W (J)
ALL CAPACITORS IN μF 50W.V. (J)

VT-150 CONNECTION DIAGRAM

NO. 11-2 1500603A 2C



※	NTSC	PAL
X101	31.5KHz	31.25KHz
IC101	MN115	MN116
R9	2.2K	1K

NOTE

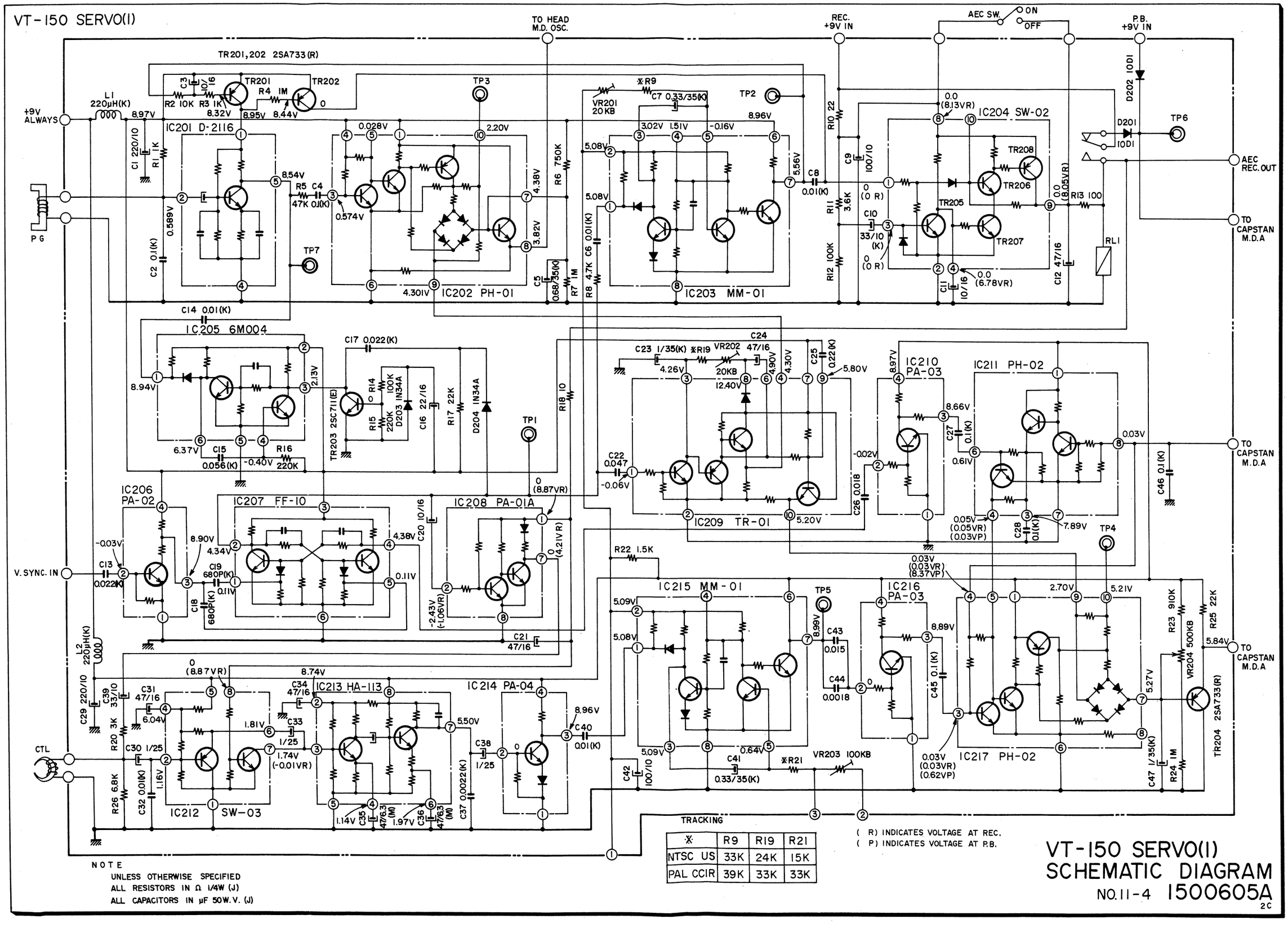
1. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS IN Ω 1/4W (J)
   ALL CAPACITORS IN μF 50W.V. (J)
2. A PART OF DOTTED LINE IS NOT NECESSARY FOR N.T.S.C MODELS

VT-150 S.S.G. SCHEMATIC DIAGRAM

NO.11-3 1500604A

2C

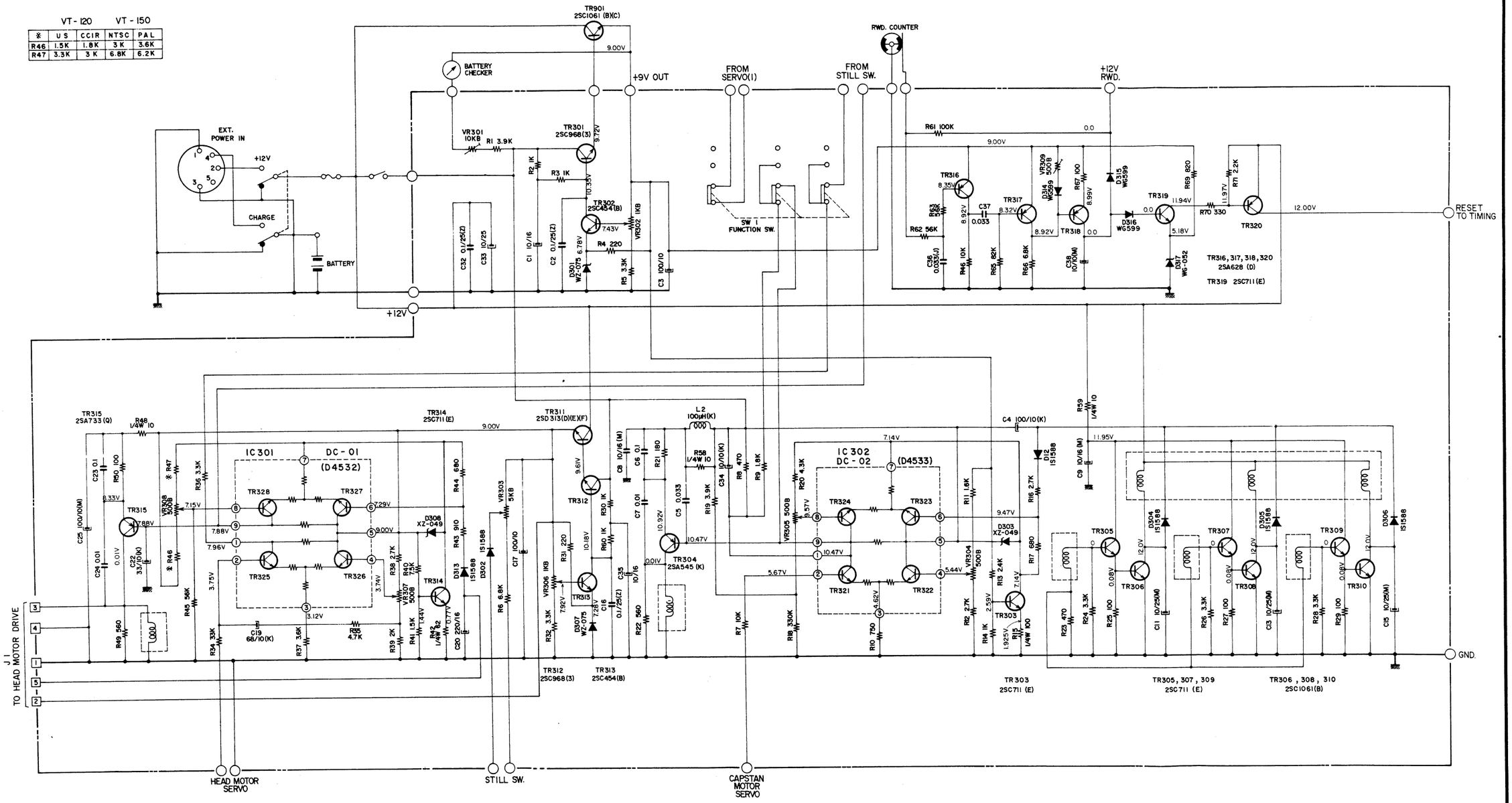
VT-150 SERVO(1)



※	R9	R19	R21
NTSC US	33K	24K	15K
PAL CCIR	39K	33K	33K

VT-150 SERVO(2)

※	VT-120 US	VT-120 CCIR	VT-150 NTSC	VT-150 PAL
R46	1.5K	1.8K	3K	3.6K
R47	3.3K	3K	6.8K	6.2K



NOTE

1. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS IN Ω 1/8W (J)
   ALL CAPACITORS IN μF 50W.V. (J)
2. COILS CIRCLED WITH A DOTTED LINE ARE NOT LOCATED ON THIS P.C. BOARD BUT IN THE CAPSTAN MOTOR.

VT-150 SERVO (2) SCHEMATIC DIAGRAM

NO.11-5 1500606A 2C

VT-150 VIDEO

※	NTSC	PAL
C1	36PF	24PF
T1	13Y-584	13Y-583

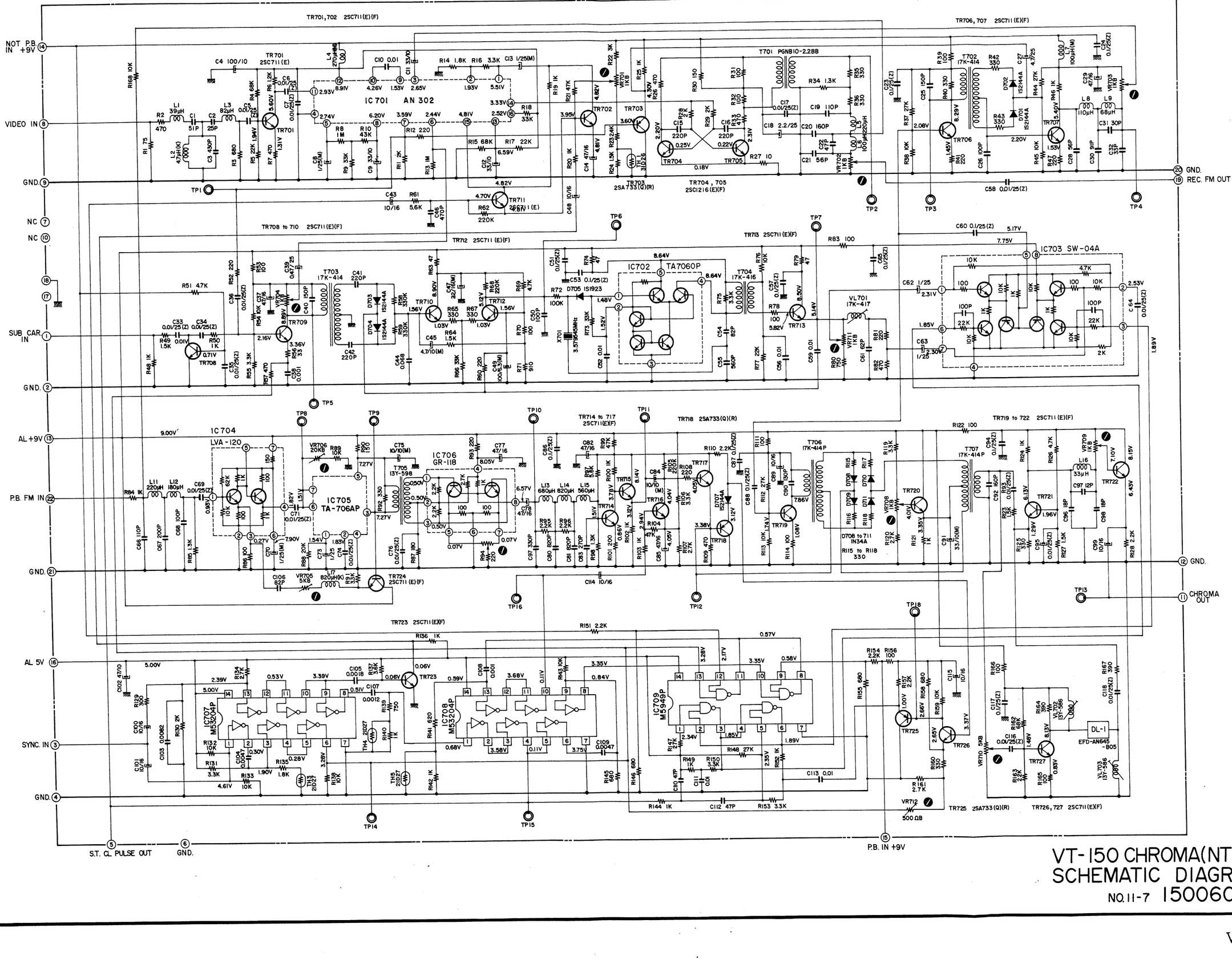
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W (J)
ALL CAPACITORS IN μF 50W.V. (J)

VT-150 VIDEO SCHEMATIC DIAGRAM

NO. 11-6 1500607A

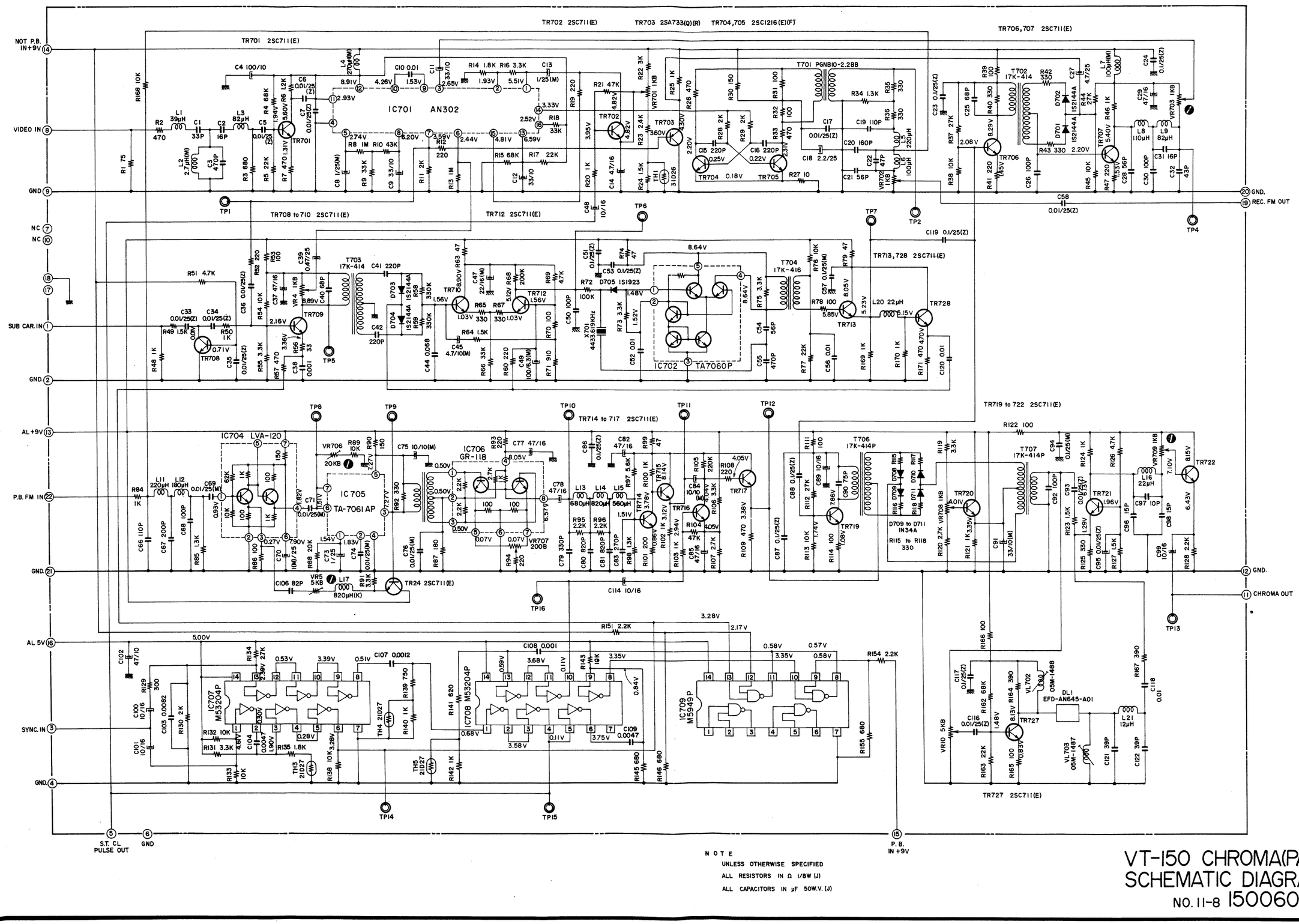
2C

VT-150 CHROMA (NTSC)



VT-150 CHROMA(NTSC) SCHEMATIC DIAGRAM

NO.11-7 1500608A 2C



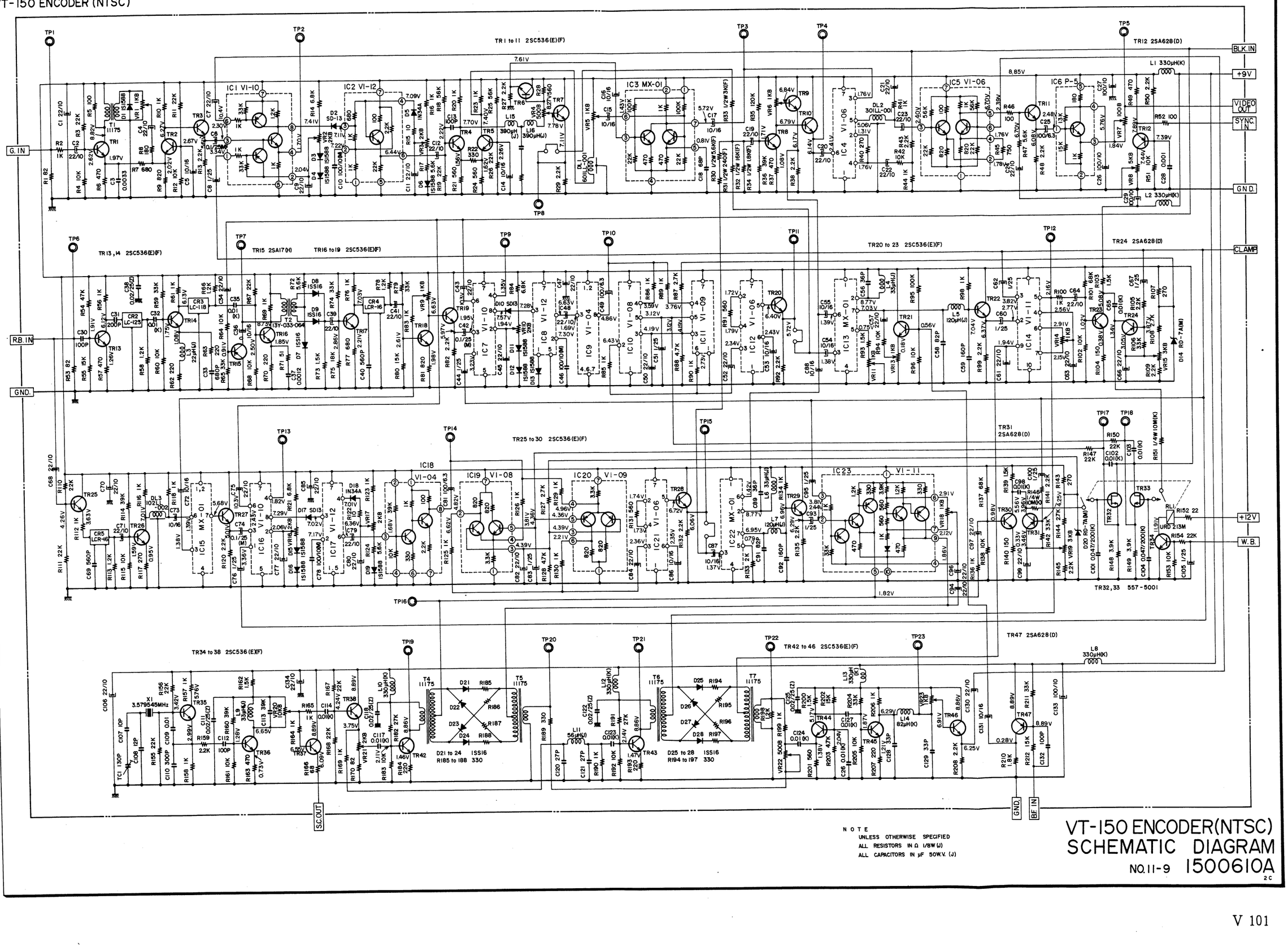
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/8W (J)
ALL CAPACITORS IN μF 50W.V. (J)

VT-150 CHROMA(PAL) SCHEMATIC DIAGRAM

NO. 11-8 1500609A

2C

VT-150 ENCODER (NTSC)

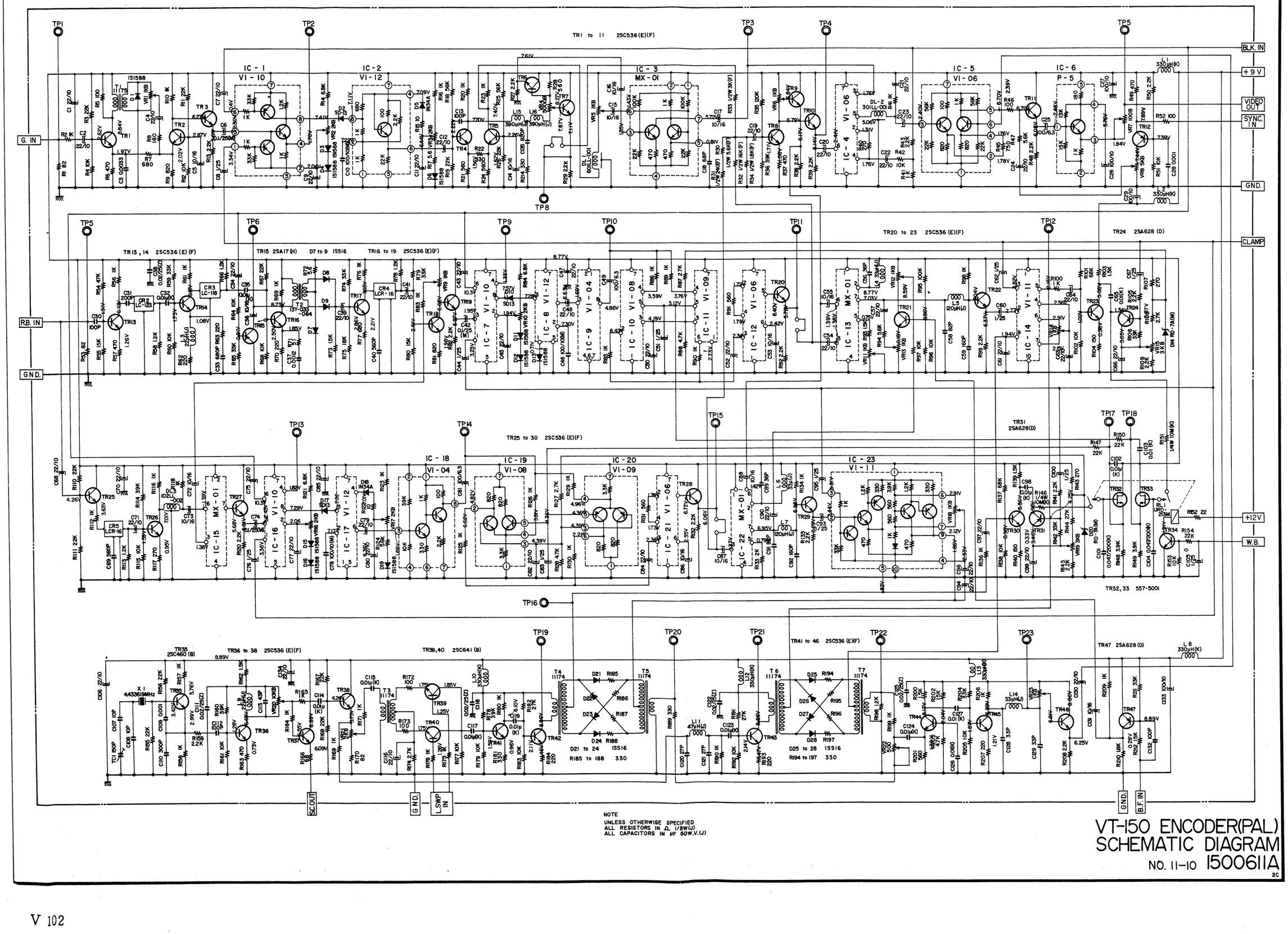


NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/8W (J)
ALL CAPACITORS IN μF 50W.V. (J)

VT-150 ENCODER(NTSC) SCHEMATIC DIAGRAM

NO.11-9 1500610A 2C

VT-150 ENCODER(PAL)

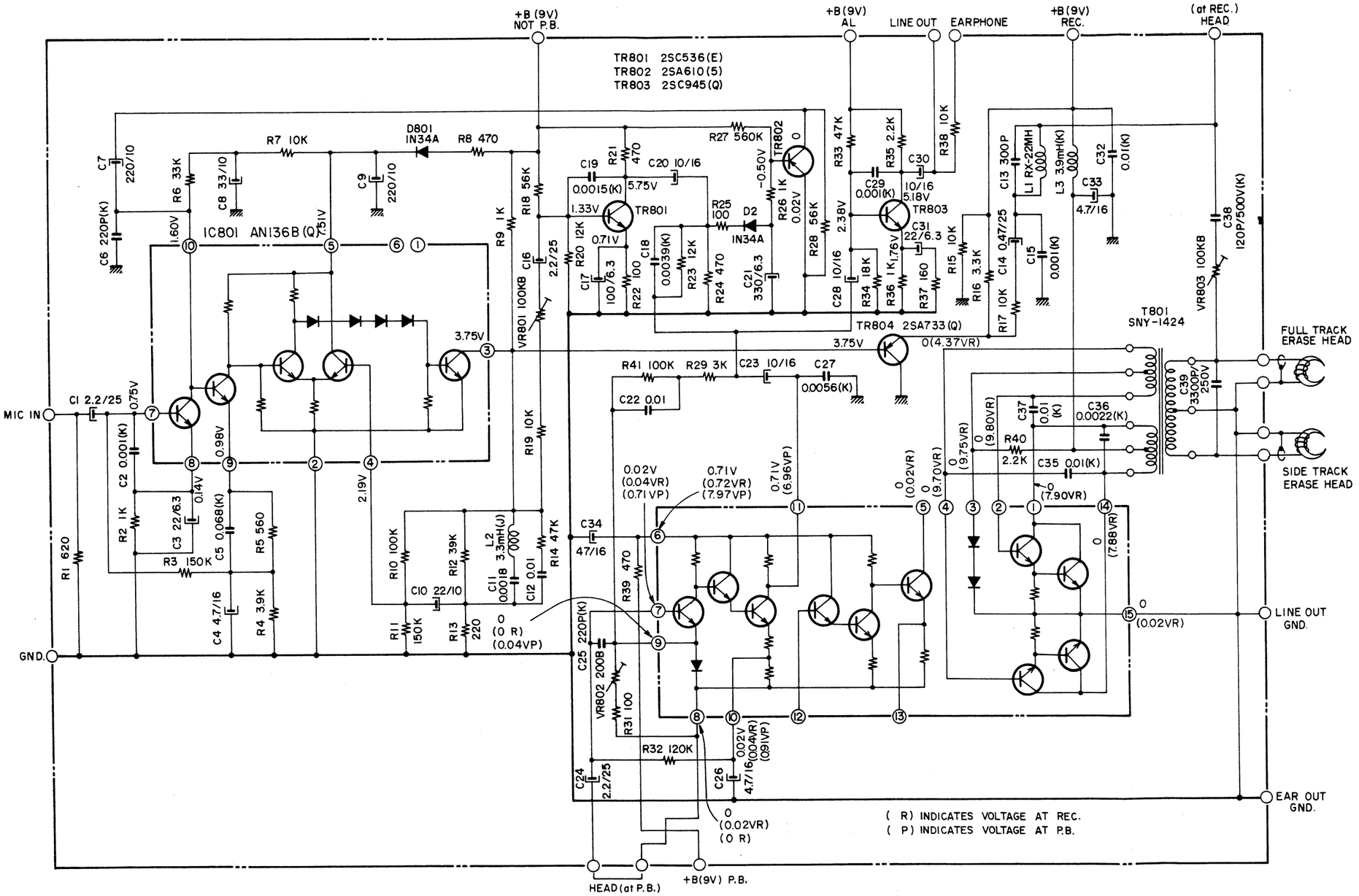


VT-150 ENCODER(PAL) SCHEMATIC DIAGRAM

NO. 11-10 1500611A

2C

VT-150 AUDIO



NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W(J)
ALL CAPACITORS IN μF 50W.V.(J)

VT-150 AUDIO SCHEMATIC DIARAM

NO.11-11 1500612A 2C

VC-150(NTSC/PAL)

PRE. AMP. P.C. BOARD CV-2003

DEFLECTION-1 P.C. BOARD CV-2001

IRIS SERVO P.C. BOARD CV-2004

REC. INDICATOR P.C. BOARD CV-2008

POWER SUPPLY P.C. BOARD CV-2027

REAR VOLUME P.C. BOARD CV-2007

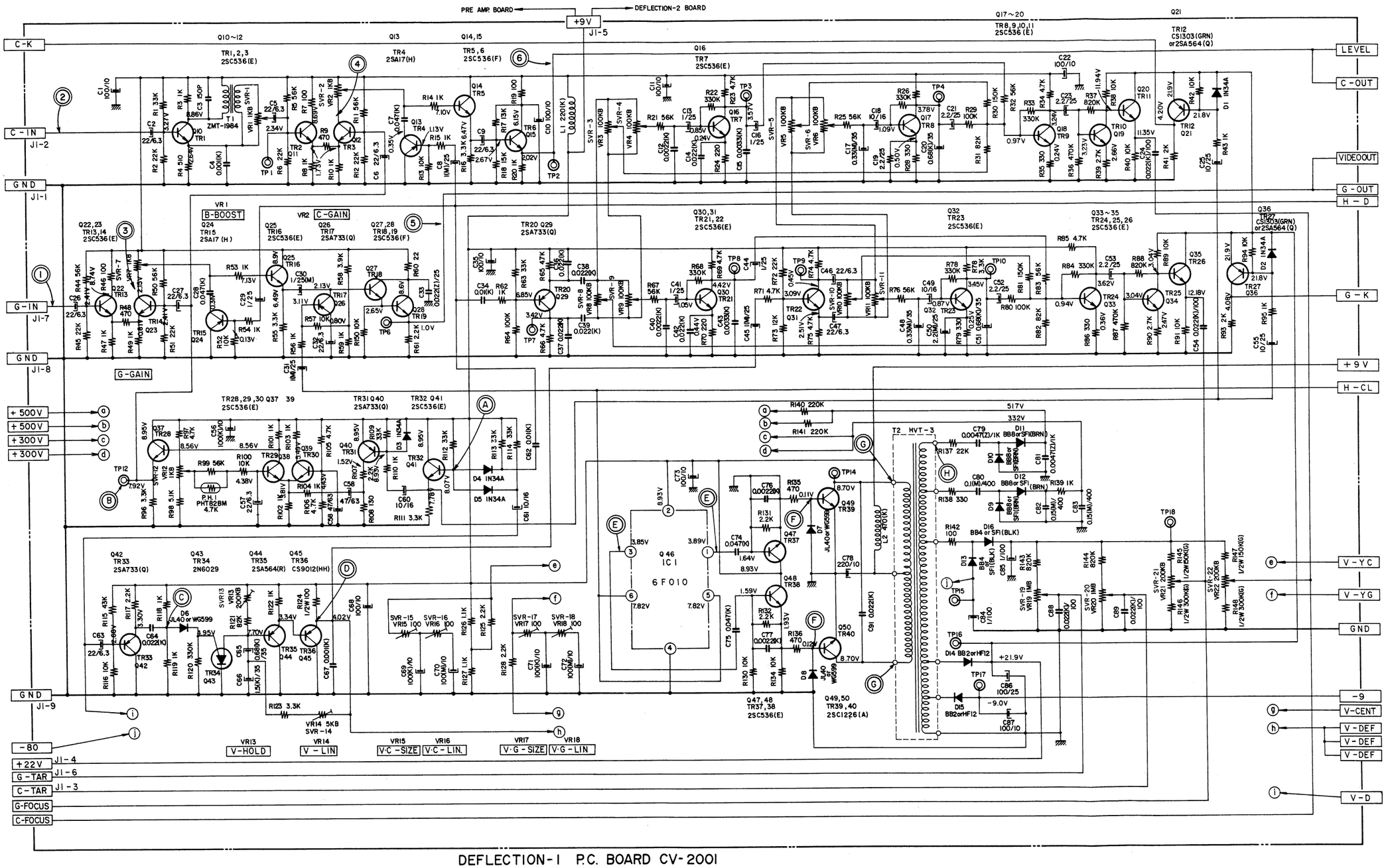
DEFLECTION-2 P.C. BOARD CV-2002

CV-2006

VC-150(NTSC/PAL) SCHEMATIC DIAGRAM

NO. 3-1 1482415A

2C

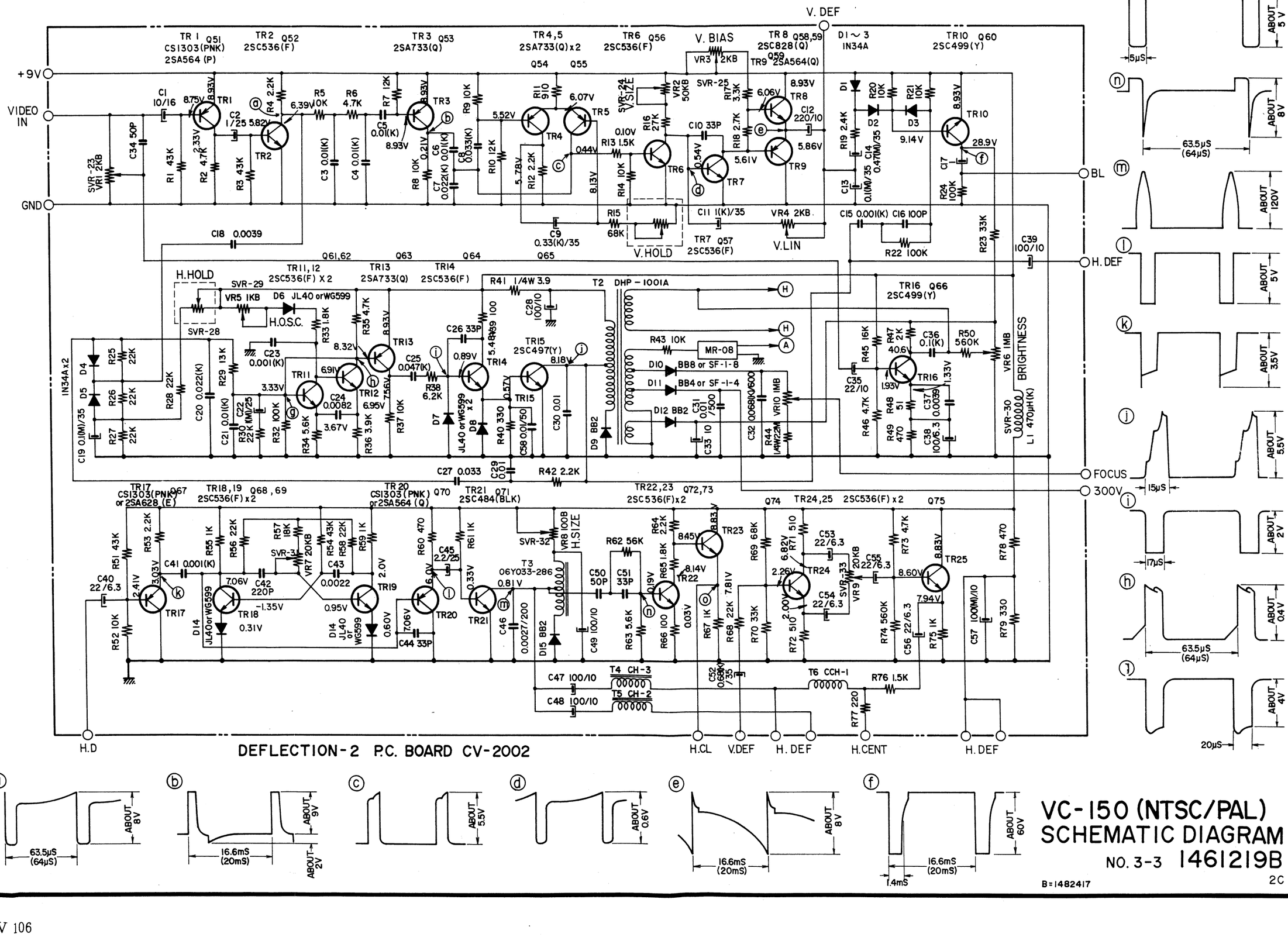


VC-150 (NTSC/PAL) SCHEMATIC DIAGRAM

NO. 3-2 1461218B

B=1482416

2C



DEFLECTION-2 P.C. BOARD CV-2002

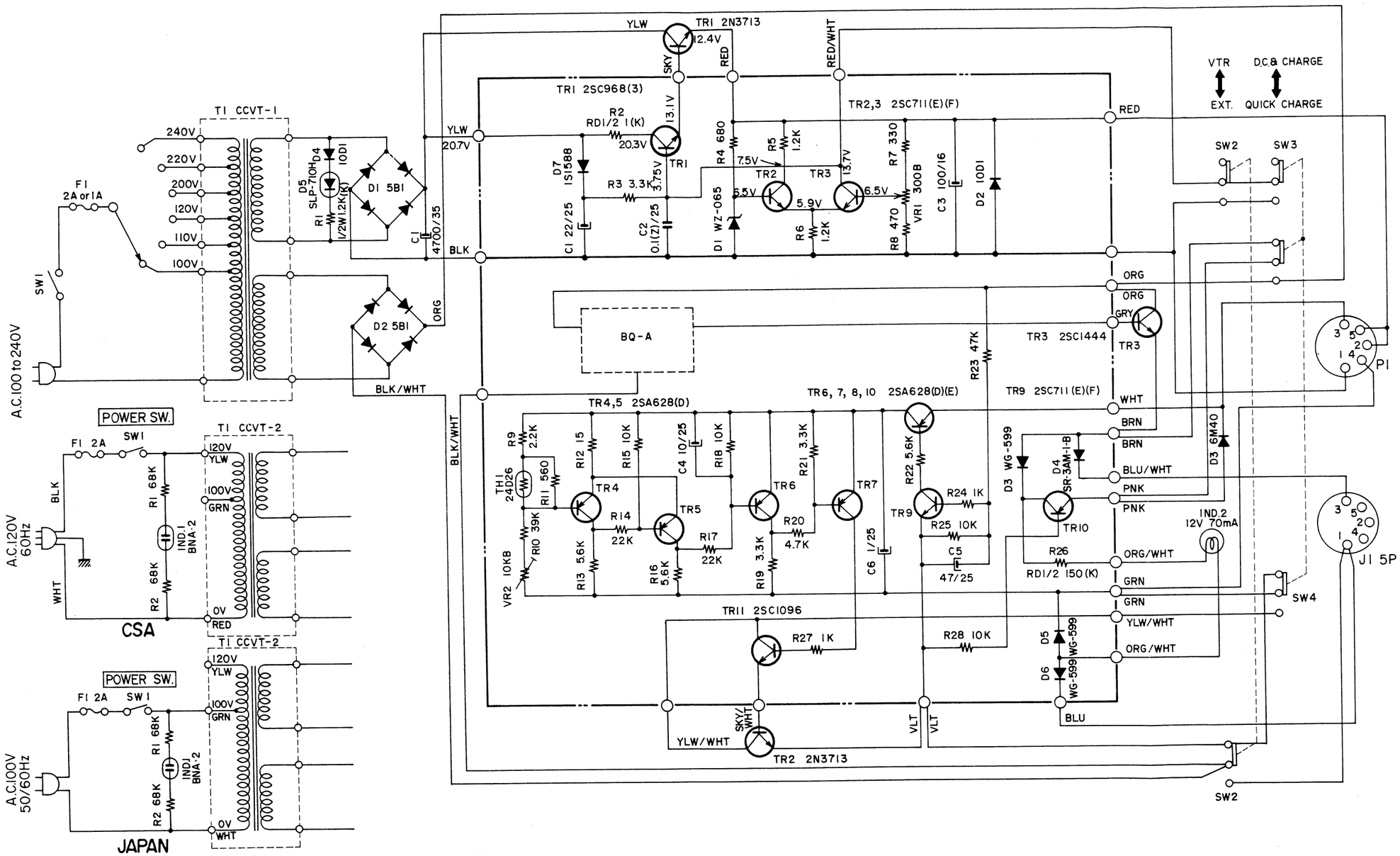
VC-150 (NTSC/PAL) SCHEMATIC DIAGRAM

NO. 3-3 1461219B

B=1482417

2C

VA-150 CHARGER



NOTE

UNLESS OTHERWISE SPECIFIED

ALL RESISTORS IN Ω 1/4W (J)

ALL CAPACITORS IN μF 50W.V. (J)

VA-150 CHARGER SCHEMATIC DIAGRAM

NO. 1500456A

2C